M   David Kirby   9 ▼

UNM LEARN

🏠   Course Home   Module 4   **Take Test: Quiz 4.10**   ?

Take Test: Quiz 4.10

Test Information

Description
Instructions
Multiple Attempts This test allows multiple attempts.
Force Completion This test can be saved and resumed later.

❯ Question Completion Status:

QUESTION 1   1 points   Saved

True or false? Many systems can be approximated as second-
order systems

🔵 True
⚪ False

QUESTION 2   1 points   Saved

A third order system with no zeros can be approximated by a
second order system with no zeros, so long as…

🔵 The third pole is at least five times faster than the pole pair
closest to the origin.

⚪ All three poles are on the real line.

⚪ The third pole is at least five times slower than the pole pair
closest to the origin.

○ The third pole is complex, i.e., has both real and imaginary components.

QUESTION 3   1 points | Saved |

In comparison with a standard second order system with no zeros, a second order system with a zero usually has…

○ Higher overshoot, depending on the location of the poles.

○ Higher settling time, depending on the location of the poles.

● Higher overshoot, depending on the location of the zero.

○ Lower overshoot, depending on the location of the zero.

Click Save and Submit to save and submit. Click Save All Answers to save all answers.

| Save All Answers | | Save and Submit |